

BP8014**Polyclonal Antibody to Collagen type III - Purified****Alternate names:**

COL3A1

Quantity:

0.5 ml

Concentration:

~1.0 mg/ml

Background:

Collagens consist in a family of highly specialized glycoproteins of which at least 16 genetically distinct types are known to date. The basal unit of a collagen molecule consists in a triple-helical structure formed by 3 alpha-chains. Predominant amino acids are glycine, proline and hydroxyproline. Regularly also lysines and hydroxylysines occur, which are responsible for cross-linkage and glycosylation of the protein chains. Different composition of alpha-chains and different glycosylation contribute to the high variability of collagens in different tissues and organs. Type III collagen is an alpha1(III)-trimer, MW 95 kDa, which forms 67 nm cross-banded fibrils. Typically it can be observed in skin, cartilage and vitreous body.

Uniprot ID:[P08121](#)**NCBI:**[NP_034060.2](#)**GeneID:**[12825](#)**Host:**

Rabbit

Immunogen:

Purified Collagen type III from Rat skin.

Format:**State:** Lyophilized purified Ig fraction**Purification:** Affinity Chromatography**Buffer System:** PBS without BSA or preservatives**Reconstitution:** Restore with 0.5 ml distilled water.

For further dilutions use appropriate antibody diluent.

Applications:**RIA.****Western blot.****ELISA:** $\geq 1/200$.**Immunofluorescence:** 1/80.**Immunohistochemistry on Frozen and Paraffin Embedded Tissues:** $\geq 1/500$.

Pretreatment: After de-waxing the tissue slices are treated with 0.2% hyaluronidase (app. 300 U/mg) in TBS 15 min at 37°C. Thereafter non-specific binding is blocked by blocking serum or 3% BSA in TBS. For peroxidase systems blocking with 1% peroxide solution in TBS for 30 min at RT is recommended.

Incubation Time: 60 minutes at RT or 2-8°C over night.

Positive Control: Rat skin or liver.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

Rat Collagen type III: 100%.
Rat Collagen I: < 0.1%
Rat Collagen type V: < 10%
Rat Elastin: < 0.1% (determined by solid phase RIA at 1/50 dilution).

Species: Rat and Mouse.

Other species not tested.

Storage:

Store lyophilized at 2-8°C for 6 months or at -20°C long term.
After reconstitution store the antibody undiluted at 2-8°C for one month
or (in aliquots) at -20°C long term.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.